

Title (en)
REACTION SINTERED MULTIPHASE CERAMIC BODY

Publication
EP 0115177 B1 19890927 (EN)

Application
EP 83307834 A 19831221

Priority
• US 45467382 A 19821230
• US 45467482 A 19821230

Abstract (en)
[origin: EP0115177A2] Ceramic body formed by reaction sintering at pressures ranging from subatmospheric to superatmospheric of admixed and shaped reactants, which can be elements, compounds, intermetallic compounds and/or alloys, in stoichiometric proportions to substantially form 5-95 mole percent of nitride phase or phases of one or both of Al and Si, and 5-95 mole percent of second phase or phases being boride, carbide, silicide and/or sulfide of one or more of elements of Groups 3b including lanthanide and actinide series elements, 4b, 5b, and 6b, which phases have a maximum grain size substantially not greater than 10 μ m and which body contains 0 to 4 weight percent oxygen. Such ceramic body is useful as part of a component in an electrolytic cell used in aluminum production.

IPC 1-7
C04B 35/58; C04B 35/65

IPC 8 full level
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CPC (source: EP)
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Cited by
EP0164830A3; EP0242968A1; EP0257708A1; CN116535215A; WO8801311A1

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